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HIGH PRESSURE WASHER 1500W
POWXG9020

1 APPLIANCE

Your high pressure cleaner has been designed for outdoors cleaning. Cleaning of: machines, vehicles, structures, tools, facades, terraces, gardening tools,…

WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. A)

1. Water inlet coupling
2. Electrical plug
3. Storage hook
4. Water outlet
5. Switch
6. Trolley handle
7. Nozzle storage
8. Foot
9. Wheel
10. High pressure hose
11. Trigger gun
12. Trigger lock
13. Lance
14. Multi Nozzle
15. Foam sprayer
16. Turbo Nozzle
17. Patio Cleaner

3 PACKAGE CONTENT LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

1x washer machine with wheels
1x trigger
1x extended lance for gun
1x soap bottle
1x adjustable nozzle
1x turbo nozzle
1x male water inlet connector
1x 3m pressure hose
1x trolley
4x screw for trolley
1x main manual
1x needle & nozzle cleaning instruction
1x patio cleaner

When parts are missing or damaged, please contact your dealer.

4 SYMBOLS

The following symbols are used in this manual and/or on the machine:

	The jet must not be directed at persons, pets, live electrical equipment or the appliance itself.		In accordance with essential safety standards of applicable European directives
	Class II - The machine is double insulated; Earthing wire is therefore not necessary.		Read manual before use
	Denotes risk of personal injury or damage to the tool.		

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to heed warnings and follow instructions may result in electric shock, fire and/or serious injury. Keep safety warnings and instructions for future reference. The term "power tool" in the safety warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

5.1 Working area

- Keep working area clean and well lit. Untidy and dark areas can lead to accidents.
- Do not operate power tools in potentially explosive surroundings, for example, in the presence of inflammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders at a distance when operating a power tool. Distractions can cause you to lose control of it.

5.2 Electrical safety

Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed power tools. Unmodified plugs and matching outlets will reduce the risk of a lethal electric shock.
- Avoid body contact with earthed surfaces such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of a lethal electric shock if your body is earthed .
- Do not expose power tools to rain or wet conditions. If water gets inside a power tool, it will increase the risk of a lethal electric shock.
- Do not damage the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of a lethal electric shock.
- When operating a power tool outdoors, use an extension cable suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of a lethal electric shock.
- If operating a power tool in a damp location is unavoidable, use a power supply protected by a residual current device (RCD). Using an RCD reduces the risk of a lethal electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication. A moment of inattention when operating a power tool may result in serious personal injury.

- Use safety equipment. Always wear eye protection. Using safety equipment such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection whenever it is needed will reduce the risk of personal injury.
- Avoid accidental starts. Ensure the switch is in the off position before inserting the plug. Carrying power tools with your finger on the switch or plugging in power tools when the switch is in the on position makes accidents more likely.
- Remove any adjusting keys or spanners before turning on the power tool. A spanner or key left attached to a rotating part of the power tool may result in personal injury.
- Do not reach out too far. Keep your feet firmly on the ground at all times. This will enable you retain control over the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from the power tool. Loose clothes, jewellery or long hair can become entangled in the moving parts.
- If there are devices for connecting dust extraction and collection facilities, please ensure that they are attached and used correctly. Using such devices can reduce dust-related hazards.

5.4 Power tool use and care

- Do not expect the power tool to do more than it can. Use the correct power tool for what you want to do. A power tool will achieve better results and be safer if used in the context for which it was designed.
- Do not use the power tool if the switch cannot turn it on and off. A power tool with a broken switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store power tools, when not in use, out of the reach of children and do not allow people who are not familiar with the power tool or these instructions to operate it. Power tools are potentially dangerous in the hands of untrained users.
- Maintenance. Check for misalignment or jammed moving parts, breakages or any other feature that might affect the operation of the power tool. If it is damaged, the power tool must be repaired. Many accidents are caused by using poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.
- Use the power tool, accessories and cutting tools, etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work which needs to be done. Using a power tool in ways for which it was not intended can lead to potentially hazardous situations.

5.5 Service

- Your power tool should be serviced by a qualified specialist using only standard spare parts. This will ensure that it meets the required safety standards.

6 ADDITIONAL SAFETY INSTRUCTIONS FOR HIGH-PRESSURE CLEANERS

- The appliance is designed solely for outdoor private use and NOT for commercial use. Please keep it away from heat, direct sunlight, moisture and rain, frost and sharp edges.
- Do not let people who have not been trained in the use of a high pressure washer nor read the instruction manual operate the machine!
- High pressure cleaners shall not be used by children or untrained personnel.
- Children should be supervised to ensure that they do not play with the appliance.
- Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your local distributor.

- Check especially the insulation of the electric cable should be faultless and without any cracks. If the electric cable is damaged, an authorized local service centre should replace it.

WARNING: High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the appliance itself.

WARNING: Do not use the appliance within range of persons unless they wear protective clothing.

- Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- Hold the spray lance firmly with both hands.
- The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect them from being struck by debris dislodged during operation.
- Wear goggles and protection clothes during operation.
- Disconnect from electrical power supply before carrying out user maintenance.
- To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- Do not use the appliance if a supply cord or important parts of appliance are damaged, e.g. safety device, high pressure hose and trigger gun.
- Do not use the appliance with wet hands. If the appliance is humid or wet, unplug it immediately. Do not put it in water.
- Tires and tire valves may be damaged by the high-pressure jet and then burst.
- Never use the machine in an environment where there could be a danger of explosion.
- It is not allowed to clean asbestos- containing surfaces with high pressure.
- This high pressure washer must not be used at temperatures below 0°C

WARNING: High pressure hoses, fittings and couplings are important for the safety of the appliance. Use only hoses, fittings and couplings recommended by the manufacturer.

WARNING: Inadequate extension cables can be dangerous. Cables on reels should always be completely unwinded to prevent the cable from overheating.

- If an extension cable is used, the plug and the socket must be waterproof and comply with the below-mentioned requirements for length and cable dimensions.
  - 1.0 mm² max. 12.5 m
  - 1.5 mm² max. 20 m
- If the electric cable is damaged, it must be replaced by the manufacturer or his service agent or similarly qualified person in order to avoid a hazard.

6.1 Mains power connection

The following should be observed when connecting the high pressure washer to the electric installation:

- The electric supply connection shall be made by a qualified electrician and comply with IEC 60364-1
- It is recommended that the electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms.

6.2 Water connection

- Connection to the public mains according to regulations.
- Inlet hose can be connected to the water mains with a max. inlet pressure of 10 bars.

This high pressure washer is in Europe only allowed to be connected with the drinking water mains, when an appropriate mains backflow preventer has been installed, Type BA according to EN 1717. The length of the hose between the backflow preventer and the high pressure washer must be at least 10 metres to absorb possible pressure peaks (min diameter ½ inch).

- Operation by suction (for example from a rainwater vessel) is carried out without backflow preventer.
- As soon as water has flown through the BA valve, this water is not considered to be drinking water any more.

IMPORTANT! Only use water without any impurities. If there is a risk of sand particles in the inlet water (i.e. from your own well), an additional filter should be mounted.

6.3 Safety devices

- The unloader valve can reduce pressure if it exceeds pre-set values.
- Locking device on trigger gun (12): The trigger gun (11) features a locking device (12). When the knob is activated, the trigger gun (11) cannot be operated.
- A thermal sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

7 ASSEMBLY

This section will explain in details how to make you high pressure washer ready for use.

7.1 Mounting of trolley handle (Fig. 1)

1. Place the trolley handle on the machine
2. Secure the handle with the 4 screws.

7.2 Mounting of foot and wheels (Fig. 2)

1. Fix the foot under the machine. Secure the foot with the 4 screws
2. Click the wheels into the machine

7.3 Mounting of storage hook (Fig. 3)

Slide the storage hook into the holder.

7.4 Mounting of Patio Cleaner (Fig. 4)

1. Insert the extension lance into to the housing
2. Fix the extension lance with the two screws to the housing
3. Insert the rotor arm into the extension lance
4. Insert the U-pin to fix the rotor arm. NOTE: Make sure the rotor arm is properly fixed to the extension lance with the U-pin

8 OPERATION

8.1 Connection of garden hose (Fig. 5)

1. Screw the water inlet coupling tight on to the water inlet Note: The inlet filter (A) must always be fitted in the water inlet pipe to filter out sand, lime stone and other impurities as these will damage the pump valves. Caution: Failure to fit the filter will invalidate the guarantee.
2. Connect the garden hose with a standard quick coupling

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8.2 Mounting of high pressure hose (Fig. 6)

1. Attach the high pressure hose to the trigger gun and machine.
2. Detach the high pressure hose by pressing the pawl (A) or button (B)

8.3 Mounting of lance and nozzle (Fig. 7)

1. Push the lance into the trigger gun
2. When inserted turn it. Caution: Make sure the lance is properly fixed to the gun
3. Attach the nozzles. Caution: When attaching the nozzle the button (A) on the nozzle should come out again. Check before activating the trigger that the nozzle is properly fixed.

8.4 Water connection

An ordinary 1/2" garden hose of min. 10 m and max. 25 m will be suitable.

IMPORTANT! Only use water without any impurities. If there is a risk of sand particles in the inlet water (i.e. from your own well), an additional filter should be mounted.

1. Let the water run through the water hose before connecting it to the machine to prevent sand and dirt from penetrating the machine. Note: Check that the filter is fitted in the water inlet pipe and that it is not clogged up.
2. Connect the water hose to the water supply by means of the quick connector (inlet water, max. pressure: 10 bar, max. temperature: 40°C).
3. Turn on the water.

8.5 Start/stop of the machine

The trigger gun and lance is affected by a thrust during operation - therefore always hold it firmly with both hands.

IMPORTANT: Point the nozzle at the ground.

This high pressure cleaner is equiped with an automatically sart/stop system, based on waterpressure.

1. Check that the machine is in upright position. NOTE: Do not place the machine in high grass!
2. Release the trigger lock
3. Activate the trigger of the trigger gun and let the water run until all air has escaped from the water hose.
4. Press the Start/stop switch.
5. Activate the trigger of the trigger gun.
6. Always adjust the distance and thus the pressure of the nozzle to the surface, which is to be cleaned.

Do not cover the machine during operation or use it in a room without adequate ventilation!
NOTE: If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch (5) "O":

1. Press the start/stop switch "O".
2. Disconnect the electrical plug from the socket.
3. Shut off the water supply and activate the trigger of the trigger gun to relieve the machine of pressure.
4. Lock the trigger gun.

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When releasing the trigger of the trigger gun, the machine automatically stops. The machine will start again when you re- activate the trigger gun.

8.6 Multi nozzle (Fig. 8)

The pressure can for the multi nozzle be adjusted by tuning it.

WARNING: Do not do this under operation to avoid that the hand hits the jet.

8.7 Foam Sprayer (Fig. 9)

1. Unscrew the container (A) from the foam sprayer.
2. Add detergent to the container (A) and screw the container to the foam sprayer.
3. Adjust the amount of detergent with the button (B)

8.8 Patio Cleaner

The patio cleaner is a powerful accessory for cleaning patio, driveways, etc.
Attach the Patio Cleaner to the lance.
NOTE: Do not use the Patio Cleaner as a broom but let is surf smoothly over the surface

9 TECHNICAL DATA

	POWXG9020
Motor TYPE	Brush motor
Pressure (Mpa)	7
Max. Pressure (Mpa)	10.5
Voltage	230V / 50Hz
Power	1500W
Flow	6 L/min
Water temperature	Max 40°C
Min. flow of water supply	360 L/h
Min. pressure water inlet	0.18 Mpa
Weight	6 kg

10 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	82 dB(A)
Acoustic power level LwA	99 dB(A)

ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration)	1,0 m/s²	K = 1,5 m/s²

11 MAINTENANCE AND CLEANING

WARNING! Always disconnect the electrical plug from the socket prior to maintenance or cleaning.

To ensure a long and problem free working life, please take the following advice:
- Wash out water hose, high pressure hose, spray lance and accessories before mounting
- Clean the connectors of dust and sand.
- Rinse the detergent spraying attachment after use.
- Clean the nozzles.

Any repair should always be made in an authorized workshop with original spare parts

11.1 Cleaning of inlet filter
- Clean the water inlet filter regularly once a month or more frequently according to use.
- Carefully loosen the filter with a screwdriver and clean it. Check that it is intact before re-mounting it.
- The inlet filter must always be fitted inside the water inlet pipe to filter out sand, limestone and other impurities, as they will damage the pump valves.

CAUTION: Failure to fit the filter will invalidate the warranty

11.2 Cleaning of air vents
The machine should be kept clean so as to let cooling air pass freely through the machine vents.

11.3 Greasing of couplings
To ensure an easy connection and that o-rings do not dry up; the couplings should be greased regularly.

12 STORAGE (FIG. 10)
The machine should be stored in a frost-free room!
Pump, hose and accessories should always be emptied of water prior to storing as follows:
1. Stop the machine (press the start/stop switch “O” and detach water hose and nozzle.
2. Restart the machine and activate the trigger of the trigger gun. Let the machine run until no more water runs through the trigger gun
3. Stop the machine, unplug and wind up hose and cable.
4. Place trigger gun, lance, nozzles and other accessories in the holders of the machine. The hook can be used for storage of the hose and cord

Should the machine by mistake be frozen, it will be necessary to check it for damage.

WARNING: Never start up a frozen machine. Frost damages are not covered by the guarantee!

13 TROUBLE SHOOTING

SYMPTOM	CAUSE	RECOMMENDED ACTION
Machine refuses to start	Machine not plugged in	Plug in machine.
	Defective socket	Try another socket.
	Defective extension cable	Try without the extension cable.
Fluctuating pressure	Pump is sucking air	Check that hoses and connections are airtight.
	Valves dirty, worn out or stuck	Contact your nearest service centre
	Water supply not sufficient	Increase water pressure, check for blockage of garden hose and/or change to bigger hose.
	Pump seals worn	Contact your nearest service centre
Machine stops	Incorrect mains voltage	Check that the mains voltage corresponds to specification on the name plate
	Thermal sensor activated	Leave the machine for 5 minutes to cool down
	Nozzle partially blocked	Clean the nozzle with a needle and by spraying water backwards through the nozzle
	Amperage increase	Try without the extension cable.
Machine pulsating	Air in inlet hose/pump	Allow machine to run with open trigger until regular working pressure resumes.
	Inadequate supply of mains water	Increase water pressure, check for blockage of garden hose and/or change to bigger hose.
	Nozzle partially blocked	Clean the nozzle with a needle and by spraying water backwards through the nozzle
	Water filter blocked	Clean the filter
	Hose kinked	Straighten out hose.
Machine often starts and stops by itself	Pump and/or trigger gun is leaking	Contact your nearest service centre
	No water supply	Connect inlet water.
Machine starts but no water comes out	Water filter blocked	Clean the filter
	Nozzle blocked	Clean the nozzle with a needle and by spraying water backwards through the nozzle

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14 WARRANTY

- This product is warranted as provided by law for a 36 months period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

15 ENVIRONMENT

Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it in an environmentally safe way. Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

16 DECLARATION OF CONFORMITY

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,

product : High pressure washer
trade mark : POWERplus
model : POWXG9020

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);

2011/65/EU
2006/42/EC
2004/108/EC
2000/14/EC Annex V LwA 96dB(A) / 99dB(A)

European harmonized standards (including, if applicable, their amendments up to the date of signature);

EN60335-1 : 2012
EN60335-2-79 : 2012
EN55014-1 : 2006
EN55014-2 : 1997
EN61000-3-2 : 2006
EN61000-3-3 : 2008

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,

Hugo Cuypers
Regulatory Affairs – Compliance Manager
Date: 08/10/2013

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